



United States Patent [19]

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- [54] **BATTERY OPERATED CAPACITANCE MEASUREMENT CIRCUIT**
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- [52] U.S. Cl. **324/678; 324/676**
- [58] Field of Search **324/676, 677, 678; 340/870.37**

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[57] ABSTRACT

A capacitance measuring circuit uses only a DC voltage source to perform the capacitance measurement. For this purpose, the circuit is arranged to charge an unknown capacitor which is being measured from a DC source and to discharge the capacitor through a constant current circuit such that the discharge voltage across the capacitor decreases linearly from its initial value to a predetermined, final value. The measurement circuit monitors the time taken by the capacitor to discharge in order to determine the capacitance value.

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25 Claims, 1 Drawing Sheet

